

ABSTRACT

The invention provides a method which allows reliable production of steel products from a light steel. The steel products according to the invention exhibit isotropic deformation behaviour and are ductile at low temperature with high yield strengths. This is achieved according to the invention by a method for producing a steel product, in particular a steel sheet or steel strip, wherein a steel strip or sheet is produced from steel which contains (in % by weight): C: ≤ 1.00 %, Mn: 7.00 to 30.00 %, Al: 1.00 to 10.00 %, Si: > 2.50 to 8.00 %, Al + Si: > 3.50 to 12.00 %, B: < 0.01 %, Ni: < 8.00 %, Cu: < 3.00 %, N: < 0.60 %, Nb: < 0.30 %, Ti: < 0.30 %, V: < 0.30 %, P: < 0.01 % and iron and unavoidable impurities as the remainder, from which strip or sheet the finished steel product is subsequently produced by cold forming that takes place at a degree of cold forming of 2 to 25 %.